

# On some matrix analogs of the little Fermat theorem

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## Abstract

© 2017, Pleiades Publishing, Ltd. The rings over which every square matrix is representable as a sum of a nilpotent matrix and a  $q$ -potent matrix, where  $q$  is a positive integer power of a prime, are studied. As consequences, matrix analogs of the little Fermat theorem are obtained.

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## Keywords

little Fermat theorem, nil clean rings, regular rings

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